

**Amendments to the Abstract:**

Please cancel the Abstract and substitute the new Abstract:

A heterojunction bipolar transistor has (1) a sub-collector, (2) a collector atop the sub-collector, (3) a base atop the collector, (4) a base contact atop the base, (5) an emitter atop the base, (6) an emitter cap atop the emitter where the emitter cap has a sidewall with a reentry feature having an undercut profile, and (7) an emitter metal atop the emitter cap.